## **AMENDMENT(S) TO THE CLAIMS**

1. (currently amended) A process of treating a fiber stock suspension for to produce at least one of paper and cardboard production having filled fibers therein, said process comprising the steps of:

providing the fiber stock suspension, with a moistened fiber material having fiber surfaces, said stock suspension having a stock pH associated therewith, said stock pH being set in an approximate range of 10 to 13;

adding at least one additive to the fiber suspension, including at least CaCO<sub>3</sub>; treating the fiber suspension and the at least one additive together in a fluffer operated under fiber stock fluffing conditions;

separating the fiber material within said fluffer so as to increase a specific surface thereof, thereby optimizing accessibility of educts to the fiber surfaces;

filling fibers within the fiber stock suspension with said additive to form filled fibers; and passing the treated fiber stock suspension to a paper machine and producing forming the at least one of paper and cardboard with the treated fiber stock suspension.

- 2. (previously presented) The process of claim 1, wherein one said additive is a filler incorporated onto the fiber surfaces during said separating step.
- 3. (original) The process of claim 1, wherein said fluffer separates the fiber material into individual fibers.

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- 4. (currently amended) The process of claim 1, wherein said fluffer is used for pretreating the fiber stock suspension <u>prior to said step of adding at least one additive to the fiber suspension</u>.
- 5. (currently amended) The A process of elaim 1, treating a fiber stock suspension for at least one of paper and cardboard production, said process comprising the steps of:

providing the fiber stock suspension, with a moistened fiber material having fiber surfaces, said stock suspension having a stock pH associated therewith, said stock pH being set in an approximate range of 10 to 13;

adding at least one additive to the fiber suspension, including at least CaCO<sub>3</sub>;

treating the fiber suspension and the at least one additive together in a fluffer operated under fiber stock fluffing conditions;

separating the fiber material within said fluffer so as to increase a specific surface thereof, thereby optimizing accessibility of educts to the fiber surfaces;

passing the treated fiber stock suspension to a paper machine and producing the at least one of paper and cardboard with the treated fiber stock suspension; and wherein said fluffer is comprised of at least one of knives and toothed fluffer disks.

- 6. (original) The process of claim 1, wherein the fluffer has a working area which is pressurized.
- 7. (original) The process of claim 6, wherein a pressure in said working area is within an approximate range of 0.1 to 20 bar.

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- 8. (original) The process of claim 1, wherein said process has a volume and mass flow rate associated therewith, said volume and mass flow rate being adjustable within an approximate range of 5 tons/day to 1500 tons/day.
- 9. (original) The process of claim 1, wherein said fiber stock suspension within said fluffer has a stock temperature, the stock temperature being capable of being regulated within an approximate range of 5° C to 250° C.
- 10. (original) The process of claim 1, wherein the at least one additive is added to the fiber stock suspension at an approximate ratio of 15% to 40%.
- 11. (original) The process of claim 10, wherein the at least one additive is added to the fiber stock suspension at an approximate ratio of 20% to 25%.
  - 12. (cancelled).
- 13. (previously presented) The process of claim 1, said CaCO<sub>3</sub> being added to the fiber stock suspension at least one of prior to, in and after said fluffer.
- 14. (original) The process of claim 13, wherein said  $CaCO_3$  has temperature selected to be in an approximate range of -10° C to 250° C.
- 15. (currently amended) The A process of claim 1, treating a fiber stock suspension for at least one of paper and cardboard production, said process comprising the steps of:

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providing the fiber stock suspension, with a moistened fiber material having fiber surfaces, said stock suspension having a stock pH associated therewith, said stock pH being set in an approximate range of 10 to 13;

adding at least one additive to the fiber suspension, including at least CaCO<sub>3</sub>;

treating the fiber suspension and the at least one additive together in a fluffer operated under fiber stock fluffing conditions;

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separating the fiber material within said fluffer so as to increase a specific surface thereof,

thereby optimizing accessibility of educts to the fiber surfaces;

passing the treated fiber stock suspension to a paper machine and producing the at least one of paper and cardboard with the treated fiber stock suspension; and

wherein one said step of adding at least one additive includes adding Ca(OH)<sub>2</sub>, said Ca(OH)<sub>2</sub> being added to the fiber stock suspension at least one of prior to, in and after said fluffer.

16. (original) The process of claim 15, wherein said Ca(OH)<sub>2</sub> is added at an approximate ratio of 1% to 60%.

- 17. (original) The process of claim 15, wherein said  $Ca(OH)_2$  has a particle surface of greater than  $30,000 \text{ cm}^2/\text{g}$ .
- 18. (original) The process of claim 5, wherein said fluffer includes at least one pair of adjoining fluffer disks, each pair of adjoining fluffer disks defining a nip, each nip having a nip width, said nip width being adjustable within a range of about 0.1 mm to about 100 mm.

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19. (original) The process of claim 1, wherein said process has an energy requirement associated therewith, said energy requirement being selected from an approximate range of 5 kWh/t to 200kWh/t.

20.-32. (cancelled)

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